

Testing Date	31-Dec-16
Ambient Temperature	16 ± 2°C
Document No.	KST-PV13S5P-PPF-01

Li-ion 48V 14.5Ah Battery Pack



Battery Pack Specifications

Cell Model	Panasonic NCR18650PF
Configuration	5P13S
Nominal Capacity	14.5Ah
Minimum Capacity	13.75Ah
Nominal Voltage	46.8V
Nominal Energy Content	678.6Wh
Charge Voltage	54.6V
Standard Charge Current	3A
Max. Charge Current	10A
Max. Continuous Discharge Current	30A
Peak Discharge Current	60A
Discharge Cut-off Voltage	35.75V
Gross Weight (Approx.)	3.3KG
Dimensions	58×140×285mm
Charge Connector	30A Anderson
Discharge Connector	30A Anderson
Operating Temperature	Charge: 0°C to 45°C Discharge: -20°C to 60°C

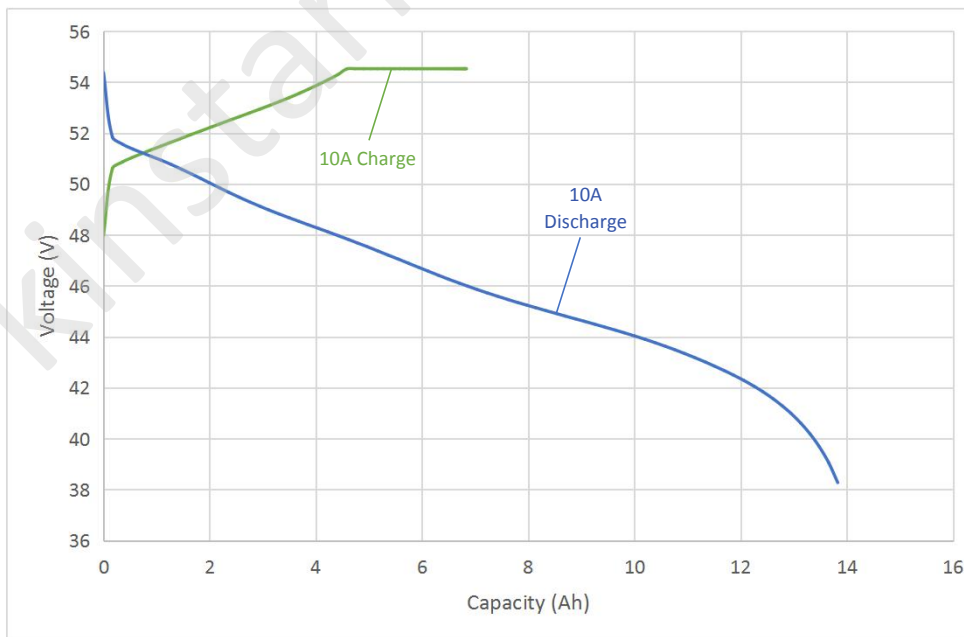
BMS Specifications

Number Of Cluster	13S
Charge And Discharge Port	Same
Max. Allowed Charge Current	30A
Max. Continuous Discharge Current	30A
Overcharge Protection Voltage	55.25 ± 0.25V
Overdischarge Protection Voltage	35.75 ± 0.62V
Overload Protection Current	60 ± 10A
Overheat Protection Temperature	65°C
External Shortcircuit Protection	Available

Test Conditions and Results

Test	Conditions	Test Result
10A Discharge To	38.27V	13.827Ah

Typical discharge profiles (10A - 0.69C rate)



Preliminary specifications, performance may vary depending on use conditions and application. KinStar makes no warranty explicit or implied with this test report. Contents subject to change without notice.